



MEMORANDUM
APRIL 2008

✓ = 1pt

QUESTION - 1 - VRAAG

[POWER TRANSMISSION — KRAGGOORBRINGING]

1.1

1.1.1

For the Speed Ratio (SR):

$$\text{Speed Ratio} = \frac{\text{Speed of Faster Pulley}}{\text{Speed of Slower Pulley}}$$

$$\text{SR} = \frac{1200}{700}$$

$$\therefore \text{SR} = 1.72 : 1$$

Vir die Speedverhouding (SR):

$$\text{Spoedverh.} = \frac{\text{Spoed van Vinniger Katrol}}{\text{Spoed van Sladiger Katrol}}$$

$$\text{SR} = \frac{1200}{700}$$

$$\therefore \text{SR} = 1.72 : 1$$

✓ (1)

1.1.2

For the Service Factor (SF):

Consider:

Type of start = soft

Hours per day = 11

Read from TABLE 1

∴ The service factor (SF) as 1.1

Vir die Dienstfaktor (SF):

Onweeg:

Tipe aansakakeling = saglig

Ure per dag = 11

Lees vanaf TABEL 1

∴ Die diensfaktor (SF) as 1.1

✓ (1)

1.1.3 For the Indicated Power (IP):

NB: Torque is been given!

$$\text{Indicated Power} = \frac{2 \times \pi \times \text{N.T.}}{60}$$

$$\therefore \text{IP} = \frac{2 \times \pi \times 1200 \times 398 \times 10^{-3}}{60}$$

$$= 50 \text{ kW}$$

Vir die Aangeduidde drywing (IP):

NB: Wringkrag is gegee!

$$\text{Aangeduidde drywing} = \frac{2 \times \pi \times \text{N.T.}}{60}$$

$$\therefore \text{Pd} = \frac{2 \times \pi \times 1200 \times 398 \times 10^{-3}}{60}$$

$$= 50 \text{ kW}$$

✓ (3)

1.1.4

For minimum pulley diameter (d):

Refer to TABLE 2:

Consider:

N = 1200 r/min

& Design Power = 50 kW

$$\therefore d = 180 \text{ mm}$$

Vir minimum katroldiameter (d):

Verwys na TABEL 2:

Onweeg:

N = 1200 r/min

& Ontwerpdrywing = 50kW

$$\therefore d = 180 \text{ mm}$$

✓ (1)

April 2010 Mechanotechnology

Arturo Cuomo

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